

SECRET**PRIORITY**

1970 JAN 27 14 27Z

OUT 69224

1

P 271412Z JAN 70
 FM NPIC WASHDC
 TO RHCOAAA/SAC OFFUTT AFB OMAHA NEB
 RHCOAAA/544TH ARTW OFFUTT AFB OMAHA NEB
 RUCILBA/100TH SRW OL 19 MCCOY AFB FLA
 RUVRPIA/WRAMA/WRNWA WARNER ROBBINS AFB, GA
 RUWMDA/100TH SRW DAVIS MONTHAN AFB ARIZ
 RUWMDA/12 SAD DAVIS MONTHAN AFB ARIZ
 RUEBJPA/NAVRECONTECHSUPPCEN SUITLAND MD
 RUEAIIA/CIA WASH DC
 RUORJCS/DIA
 RUWBKMA/15TH AF MARCH AFB RIVERSIDE CALIF
 RUEFHQA/HQS USAF
 BT

S E C R E T CITE NPIC 7864.

SAC FOR DIPI, DOSR, DISD, DM4C, DPLC; 100 SRW DAVIS MONTHAN AFB ARIZ
 DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DIAXX-1; HQ USAF FORMS
 AFICOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.

SUBJECT: EVALUATION OF OLD HEAD MISSION G-113, FLOWN 15 JAN 70

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY IS POOR

DISTRIBUTION		
CY	OFFICE	PI
1	FILE	
2	CABLE SEC.	
	PP&P/RD	
	SECUR.	
3	TESS/OC	
4.5	TESS/MSD	
	PSG/OC	
	KRD	
	REPO	
	AID	
	IEG	
	IEG/OD	
	SCIEN	
	WEST	
	FOR	
	IEG/PHD	
	JAN 7TAS	
	TO FADRA-XX4	
	SPAD	
	DIA-AP	
	CMX	
	VEHICLE	

25X1

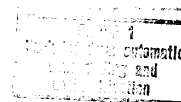
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THE MAJOR DEGRADING FACTOR IS IMAGE MOTION RESULTING FROM VEHICLE VIBRATION. THIS DEGRADATION IS MORE NOTICEABLE THAN ON PREVIOUS MISSIONS DUE TO THE USE OF A WIDER SLIT (0.10 INCH). THERE IS A RESULTANT LACK OF EDGE DEFINITION AT MAGNIFICATIONS OF 12X AND ABOVE. IN ADDITION THERE ARE AREAS WITHIN EACH FRAME THAT CONTAIN SMEARED IMAGERY (SCAN DIRECTION). THESE AREAS APPEAR AT RANDOM AND EXTEND ACROSS THE WIDTH OF THE FORMAT. THE INTERPRETATION SUITABILITY RANGES FROM POOR TO FAIR. CLOUD COVER OBSCURES APPROX. 15 PERCENT OF THE ENTIRE MISSION. EXAMINATION OF THE EXPOSURE CHARTS INDICATE THAT THE 0.10 INCH SLIT WIDTH USED ON THIS MISSION WAS CORRECT TO MAINTAIN PROPER EXPOSURE THROUGHOUT. HOWEVER, THE INCREASE IN APPARENT IMAGE MOTION SUGGESTS THAT A REDUCTION IN EXPOSURE DURATION IS NECESSARY. THIS CAN BE ACCOMPLISHED BY USING A WIDER BAND FILTER, A FASTER FILM TYPE, OR PENETRATING AT HIGHER SOLAR ELEVATIONS. OF THESE ALTERNATIVES, THE FIRST TWO APPEAR TO BE THE MOST FEASIBLE; HOWEVER, A CERTAIN AMOUNT OF TESTING SHOULD BE ACCOMPLISHED PRIOR TO THE USE OF EITHER ALTERNATIVE ON AN OPERATIONAL MISSION. THEREFORE, WE FEEL THAT THE USE OF A WRATTEN 12 OR WRATTEN 15 FILTER, OR A FASTER FILM TYPE, POSSIBLY SO-349, SHOULD BE INVESTIGATED.

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2. MISSION DATA

- A. G-113, 19 JAN 70
- B. IRIS II, 8011
- C. A/C NO: 339
- D. STEREO
- E. T/O: 1220Z, C/ON: 1430Z
- F. 3404, W-23A
- G. MX-819-1, NPTSC

SECRET

H. AVG GAMMA: 1.73

I. SLIT: 0.100 INCH

3. ORIGINAL NEGATIVE:

A. EXPOSURE: THE EXPOSURE RANGES FROM PROPERLY EXPOSED TO SLIGHTLY OVEREXPOSED AT THE END OF THE MISSION.

B. DENSITY AND CONTRAST: GENERALLY MEDIUM.

C. IMAGED DEGRADATIONS: A FISH-HOOK SHAPED AND "V"-SHAPED FOG PATTERN ARE PRESENT ON THIS MISSION. THEY ARE DESCRIBED IN THE EVALUATION OF G-107 (OUT 7580). NUMEROUS SLIT IMAGES (HEAVY IN DENSITY) ARE PRESENT, AT RANDOM, FROM FRAMES 471-500. THE IMAGERY IN THE SURROUNDING AREA IS SEVERELY SMEARED. THIS INDICATES THE POSSIBILITY THAT THE LENS CELL ASSEMBLY STOPPED AND

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STARTED SCANNING AT THESE VARIOUS LOCATIONS. BANDING IS PRESENT AT THE SUPPLY END OF MOST FRAMES. HOWEVER, THERE ARE SEVERAL INSTANCES IN WHICH BANDING IS PRESENT THROUGHOUT THE FRAME.

D. PHYSICAL DEGRADATIONS: SIX HEAT SPLICES AND ONE ULTRASONIC SPLICE ARE PRESENT ON THE MISSION. FINE EMULSION SCRATCHES ARE PRESENT THROUGHOUT THE MISSION.

E. DATA RECORDING EQUIPMENT: ALL SYSTEMS FUNCTIONED PROPERLY.

F. OTHER: THE LAST TITLED FRAME IS 671, COUNTER 671.

GP-4. POSITIVES: THE PRINTING AND PROCESSING ARE GOOD.

GP-1

S E C R E T

END OF MESSAGE